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notable zigzag of the river towards the Northeast and then towards the Southeast is thus explained. The ancient drainage passed around the eroded east end of the mountain. For a good many years he had maintained the existence of these ancient Alpine ranges in early times, but without until now deducing the opinion from regularly compiled structural elements of observation.

Pending nominations Nos. 766 to 780 were read, and Nos. 766 to 779 balloted for, and the following persons declared duly elected members of the Society:

Mr. Wm. A. Ingham, of Philadelphia.

M. Viollet le Duc, of France.

Mr. John McArthur, Jr., of Philadelphia.

Judge Joseph Allison, of Philadelphia.

Mr. Edward Penington, of Philadelphia.

Dr. Henry Chapman, of Philadelphia.

Mr. Alexander Agassiz, of Cambridge, Mass.

Prof. Frederick Prime, Jr., of Easton, Pa.

Prof. S. P. Langley, of Allegheny City, Pa.

Mr. H. S. Hagert, of Philadelphia.

Prof. C. F. Chandler, of New York.

Mr. Rossiter W. Raymond, of New York.

Prof. Leonard G. Frank, of Philadelphia.

Mr. Wm. P. Tatham, of Philadelphia.

And the meeting was adjourned.

*Stated Meeting, May 7, 1875.*

Present, 20 members.

Vice-President, MR. FRALEY, in the Chair.

Letters accepting membership were received from Mr. Alex. Agassiz, dated Cambridge, Mass, April 20; Judge Joseph Allison, dated Philadelphia, April 21; Mr. John McArthur, Jr., dated Philadelphia, April 20; Prof. Leo. Geo. Frank, dated Philadelphia, April 19; Mr. H. S. Hagert,

dated Philadelphia, May 3 ; Mr. W. A. Ingham, dated Philadelphia, April 19 ; Prof. S. P. Langley, dated Allegheny, Pa., April 19 ; Prof. Frederick Prime, Jr., dated Lafayette College, Easton, April 19, and Prof. Rossiter W. Raymond, dated New York, April 24.

A letter of acknowledgment was received from the Royal Society, dated Edinburgh, Dec., 1874 (XIV. i. iii. Proc. 83-87).

A letter of envoy was received from the London Meteorological Office of the Royal Society dated April, 1875.

Donations for the Library were received from the Royal Academies at Berlin and Turin ; the Observatories at Greenwich, Cape Town, and Oxford ; the Geographical Society and Editors of *Révue Politique* at Paris ; the Royal Geographical and Royal Astronomical Societies and Editors of "*Nature*" at London ; and Literary and Philosophical Society, Liverpool ; Natural History Society, of Northumberland, at Newcastle-on-Tyne ; Royal Society and Royal Botanical Garden at Edinburgh ; Royal Geological Society at Dublin ; Essex Institute ; Museum of Comparative Zoology, at Cambridge, Massachusetts ; Boston Society of Natural History ; American Antiquarian Society at Worcester ; Siliman's Journal ; Prof. J. D. Dana ; Editors of the *American Chemist* ; Columbia College School of Mines ; New Jersey Historical Society ; Editors of the *Medical News* and *Penn Monthly* ; College of Pharmacy ; Dr. C. M. Cresson ; Mr. Lorin Blodget ; the U. S. Coast Survey ; U. S. Engineer Department ; and U. S. Department of the Interior.

Dr. Barker exhibited the performance of his new arrangement of the galvanometer for lecture illustration, describing the successive contributions to its perfection made by Saxton, Poggendorf, Sir Wm. Thompson, President Morton, and Prof. Mayer.

A discussion followed on the galvanic currents in rocks, and the magnetism of the earth.

Mr. Blodget referred to a former communication to the Society on the subject of the vertical descent of air in the

case of the meteoric "Northers," and to similar views expressed by Professor Loomis at the last meeting of the National Academy at Washington, regretting that he had not had leisure to place all the facts which he had observed and gathered in support of his views before the Society.

Pending nomination No. 780 was read.

Mr. Fraley reported the receipt of the quarterly interest of the Michaux legacy, due April 1st, amounting, with the premium on gold, to \$154.48.

And the meeting was adjourned.

*Stated Meeting, May 21, 1875.*

Present, 15 members.

Vice-President, MR. FRALEY, in the Chair.

A letter acknowledging the receipt of Proceedings 92 was received from the New Bedford Free Public Library.

Letters of envoy were received from the Asiatic Society of Japan, dated Yokohama, April 5; the United States Coast Survey office; the Norwegian University, Christiana; and Mr. H. Wheatland, Salem, Massachusetts, May 5, 1875.

Donations for the Library were received from the University of Norway; Dr. Boekh; the Royal Society at Göttingen; Royal Academy at Berlin; Horticultural Society, Berlin; Dorpat Observatory; Imperial Geological Institute, Vienna; Société Vaudoise, Lausanne; Editors of *Révue Politique*, Paris, and "*Nature*," London; Mr. H. Wheatland, Salem; Peabody Museum, Cambridge, Massachusetts; New Bedford Free Public Library; Prof. Dana, New Haven; Buffalo Society of Natural History; Editor of the *American Chemist*, New York; Department of the Interior, U. S.; and Mr. Winchell.

Letters requesting back numbers to complete a set were received from the Royal Academy, Berlin, and Trübner & Co.

Mr. Lesley described the changes made in the theoretical